

Amendments to the Abstract

Replace the Abstract with the following new Abstract:

Abstract

The present invention relates to oxidic nanocrystals and a process and apparatus for producing oxidic nanocrystals from metalorganic compounds or volatile inorganic compounds. In particular, the process is suitable for oxidic or oxysulfidic nanocrystals, particularly based on the elements Y, Gd, Mg, Ca, Ba and Al. The nanocrystals preferably have a mean initial particle size of 1 to 20 nm.